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OCT 20 2008

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

1. (previously presented) A liquid drop discharge head, comprising:  
a nozzle configured to discharge a liquid drop by using a piezoelectric element;  
wherein the piezoelectric element is a stacked layer type piezoelectric element wherein a plurality of piezoelectric layers and a plurality of inside electrode layers are reciprocally stacked,  
and  
the piezoelectric layer is formed by a piezoelectric material not including lead but having bismuth sodium titanate as main ingredients, the piezoelectric material having a sintering temperature less than 1200 °C.

Claims 2-10 (canceled).

11. (previously presented) A liquid drop discharge device, comprising:  
a liquid drop discharge head configured to discharge a liquid drop;  
wherein the liquid drop discharge head includes a nozzle configured to discharge the liquid drop by using a piezoelectric element,  
the piezoelectric element is a stacked layer type piezoelectric element wherein a plurality of piezoelectric layers and a plurality of inside electrode layers are reciprocally stacked, and  
the piezoelectric layer is formed by a piezoelectric material not including lead but having bismuth sodium titanate as main ingredients, the piezoelectric material having a sintering

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temperature less than 1200 °C.

12. (previously presented): An image forming device configured to form an image on a recording medium by discharging a liquid drop of recording liquid, comprising:

a liquid drop discharge head configured to discharge the liquid drop;

wherein the liquid drop discharge head includes a nozzle configured to discharge the liquid drop by using a piezoelectric element, and

the piezoelectric element is a stacked layer type piezoelectric element wherein a plurality of piezoelectric layers and a plurality of inside electrode layers are reciprocally stacked, and

the piezoelectric layer is formed by a piezoelectric material not including lead but having bismuth sodium titanate as main ingredients, the piezoelectric material having a sintering temperature less than 1200 °C.

Claim 13 (canceled).

14. (previously presented) The liquid drop discharge head of claim 1, further comprising:  
a frame member including an opening part formed therein and configured for supply of recording liquid to said nozzle from an external source.

15. (new) The liquid drop discharge head of claim 1, wherein:  
said inside electrode layers are reciprocally pulled out to one end of said piezoelectric element and another end of said piezoelectric element, and wherein said liquid drop discharge head further comprises

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a driving signal supplying part configured to supply a driving signal and connected to said inside electrode layers at said one end of said piezoelectric element and also to said inside electrode layers at said another end of said piezoelectric element.

16. (new) The liquid drop discharge head of claim 15, wherein said driving signal supplying part is connected to said individual electrode layers via an anisotropic conductive film.

17. (new) The liquid drop discharge device of claim 11, wherein:

said inside electrode layers are reciprocally pulled out to one end of said piezoelectric element and another end of said piezoelectric element, and wherein said liquid drop discharge head further comprises

a driving signal supplying part configured to supply a driving signal and connected to said inside electrode layers at said one end of said piezoelectric element and also to said inside electrode layers at said another end of said piezoelectric element.

18. (new) The liquid drop discharge device of claim 17, wherein said driving signal supplying part is connected to said individual electrode layers via an anisotropic conductive film.

19. (new) The image forming device of claim 12, wherein:

said inside electrode layers are reciprocally pulled out to one end of said piezoelectric element and another end of said piezoelectric element, and wherein said liquid drop discharge head further comprises

a driving signal supplying part configured to supply a driving signal and connected to

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said inside electrode layers at said one end of said piezoelectric element and also to said inside electrode layers at said another end of said piezoelectric element.

20. (new) The image forming apparatus of claim 19, wherein said driving signal supplying part is connected to said individual electrode layers via an anisotropic conductive film.

21. (new) The liquid drop discharge device of claim 11, further comprising:

a plurality of liquid drop discharge heads, each configured in the same manner as said liquid drop discharge head, wherein

said inside electrode layers are reciprocally pulled out to one end of said piezoelectric element and another end of said piezoelectric element; and further comprising

a driving signal supplying part configured to supply a driving signal and connected to said inside electrode layers at said one end of said piezoelectric element and also to said inside electrode layers at said another end of said piezoelectric element, wherein

said driving signal supplying part is connected to said inside electrode layers at said one end of said piezoelectric element of each liquid drop discharge head individually and is connected to said inside electrode layers at said another end of said piezoelectric element of a plurality of liquid drop discharge heads.

22. (new) The liquid drop discharge device of claim 21, wherein said driving signal supplying part is connected to said individual electrode layers via an anisotropic conductive film.

23. (new) An image forming apparatus including said liquid drop discharge device of

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claim 21.

24. (new) The image forming apparatus of claim 23, wherein said driving signal supplying part is connected to said individual electrode layers via an anisotropic conductive film.